

#2

OIPE

## RAW SEQUENCE LISTING

DATE: 12/21/2001

PATENT APPLICATION: US/10/010,940

TIME: 08:56:33

Input Set : A:\427d3.app.txt

Output Set: N:\CRF3\12212001\J010940.raw

P.5

ENTERED

4 <110> APPLICANT: Xu, Jiangchun  
 5     Dillon, Davin C.  
 6     Mitcham, Jennifer L.  
 7     Harlocker, Susan Louise  
 8     Jiang Yuqui  
 9     Reed, Steven G.  
 10    Kalos, Michael  
 11    Fanger, Gary  
 12    Retter, Mark  
 13    Solk, John  
 14    Day, Craig  
 16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
 17     DIAGNOSIS OF PROSTATE CANCER  
 19 <130> FILE REFERENCE: 210121.427D3  
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/010,940  
 22 <141> CURRENT FILING DATE: 2001-12-05  
 24 <160> NUMBER OF SEQ ID NOS: 575  
 26 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 29 <211> LENGTH: 814  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Homo sapien  
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 34 <221> NAME/KEY: misc\_feature  
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 40   atcaaactcg aggggtgtct ggaggacttc aatacacctc ccccatagtg gaatcagctt     120  
 41   ccaggggggc cagtcctctt cttacttcca tccccatccc atgccaaagg aagaccctcc     180  
 42   ctccttggtc cacagccttc tctaggtctc ccagtgcctc caggacagag tgggttatgt     240  
 43   tttcagctcc atccttgcgt tgagtgtctg gtgcgttggt cctccagctt ctgctcagtg     300  
 44   cttcatggac agtgtccagc acatgtcact ctccactctc tcagtgtgga tccactagtt     360  
 45   ctagagcggc cgccaccgcg gtggagctcc agcttttggt cccttttagtg aggggttaatt     420  
 46   gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca     480  
 47   attccacaca acatacgagc cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg     540  
 W--> 48   anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg     600  
 W--> 49   tgccagctgc attaatgaat cggccaacgc ncgggggaaaa gcggtttgcg ttttgggggc     660  
 W--> 50   tcttccgctt ctcgctcact nantcctgcg ctcggtcntt cggtgcggg gaacgggtatc     720  
 W--> 51   actcctcaaa ggnggtatta cggttatccn naaatcnggg gataccngg aaaaaanttt     780  
 W--> 52   aacaaaaggg cancaaaggg cngaaacgta aaaa     814  
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 55 <211> LENGTH: 816  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Homo sapien  
 59 <220> FEATURE:  
 60 <221> NAME/KEY: misc\_feature

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62 <223> OTHER INFORMATION: n = A,T,C or G
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66 ttcattggtg ttggagcaat agaaccacag ttctacgagc tgctgatcaa aggacttgga      120
67 cttaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag      180
68 aagttttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc      240
69 acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac      300
70 aaggaacggg gctcgtttat caccagttag gaggcaggag tgagcccccg ccctgcacct      360
71 ctgctgttaa acacccacg catcccttct ttcaaaaggg atccactagt tctagaagcg      420
72 gccgccaccg cgggtgagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt      480
73 ggcgtaatca tggtcatagc tgtttctgtg gtgaaattgt tatccgctca caattccccc      540
W--> 74 aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn      600
W--> 75 cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn      660
W--> 76 ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc      720
W--> 77 tcgetcattg atcctngenc ccggtcttcg gctgcggnga acggttcaact cctcaaaggc      780
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81 <211> LENGTH: 773
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapien
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86 <221> NAME/KEY: misc_feature
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92 tcctgctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc      120
93 tcctcaaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac      180
94 tctgccttcg tcttctttgc aaatacatct gcaaaacttct tcttcatttc tggccaatca      240
W--> 95 tccatgctca tctgattggg aagttcatca gacttttagtc canntccttt gatcagcagc      300
96 tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa      360
97 gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccgttac      420
W--> 98 ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcgtt ttacaacgtc      480
99 gtgactggga aaaccctggg cgttaccaac ttaatgcctt tgcagcacat ccccctttcg      540
W--> 100 ccagctgggc gtaatanaga aaaggcccg cccgatcgcc cttccaacag ttgcgcacct      600
W--> 101 gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnagg tttngttgtt      660
W--> 102 acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttnccttt      720
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106 <211> LENGTH: 828
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapien
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)...(828)
113 <223> OTHER INFORMATION: n = A,T,C or G
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Input Set : A:\427d3.app.txt

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117 aatgggcaga cacaggtgta tgccaatggt tctgaaatgg gtataatttc gtcctctcct 120
118 tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag 180
119 acgtgggtga ccatgttggt tgtggggtgc agagatggga ggggtgggc ccaccctgga 240
120 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
W--> 121 acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
W--> 122 gngggcactg ggaagcctan atnaggcctg gagcanaaag aaggggagga tccactagtt 420
W--> 123 ctanagcggc cgccaccgcg gtgganctcc ancttttggt cccttttagtg agggttaatt 480
W--> 124 gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
W--> 125 attccacaca acatacganc cggaacata aantgtaaac ctggggtgcc taatgantga 600
W--> 126 ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
W--> 127 ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcggtt tgggcgctct 720
W--> 128 tccgcttcct cnetcantta ntccctncnc tccgctcatt ccgctgcngc aaaccgggtc 780
W--> 129 accnctcca aagggggtat tccggtttcc cnaatccgg gganance 828
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 834
133 <212> TYPE: DNA
134 <213> ORGANISM: Homo sapien
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (1)...(834)
139 <223> OTHER INFORMATION: n = A,T,C or G
141 <400> SEQUENCE: 5
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143 agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
144 attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac 180
145 tgaagtaaat ctagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
146 acatttgcca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
147 taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
148 aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
149 cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat 480
150 tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
151 tcaccaaccc ctacagttata aaaaattttc aagttatatt agtcatataa cttggtgtgc 600
152 ttatttttaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
W--> 153 gatattggtc atttttacca gcttctaaat ctnaactttc aggcctttga actggaacat 720
W--> 154 tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
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158 <211> LENGTH: 818
159 <212> TYPE: DNA
160 <213> ORGANISM: Homo sapien
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (1)...(818)
165 <223> OTHER INFORMATION: n = A,T,C or G
167 <400> SEQUENCE: 6
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169 aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga 120
170 tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagtgt agccaataat 180
171 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatggt gagccgtaga tgccgtcgga 240
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172 aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagacccag 300
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174 gtgagctcag gtgattgata ctctgatgc gagtaatacg gatgtgttta ggagtgggac 420
175 ttctagggga tttagcgggg tgatgcctgt tggggggccag tgccctccta gttggggggt 480
176 aggggctagg ctggagtggg aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga 540
177 ggtaataaat aggattatcc cgtatcgaag gccttttttg acaggtggtg tgtggtggcc 600
178 ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg 660
W--> 179 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720
W--> 180 gtcattanga nggctnaaaa ggcctgtta ngggtctggg ctnggtttta cccnaccat 780
W--> 181 ggaatncnc ccccggaacna ntgnatccct attcttaa 818
183 <210> SEQ ID NO: 7
184 <211> LENGTH: 817
185 <212> TYPE: DNA
186 <213> ORGANISM: Homo sapien
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (1)...(817)
191 <223> OTHER INFORMATION: n = A,T,C or G
193 <400> SEQUENCE: 7
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195 cgggccctat ttcaaagatt tttaggggaa ttaattctag gacgatgggt atgaaactgt 120
196 gggttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggta 180
197 aagtggtttg gtttagacgt cgggaattg catctgtttt taagcctaata gtggggacag 240
W--> 198 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga 300
199 gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg 360
200 gaagtatgta ggaattgaag attaatccgc cgtagtcggg gttctcctag gttcaatacc 420
201 attggtggcc aattgatttg atggttaagg gagggatcgt tgaactcgtc tgttatgtaa 480
W--> 202 aggatncctt nggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt 540
W--> 203 tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt 600
W--> 204 gaatnttnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg 660
W--> 205 cnttatcntn aaaggtgnata accnctccta tnatccacc caatngnatt cccacncnn 720
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215 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (1)...(799)
217 <223> OTHER INFORMATION: n = A,T,C or G
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221 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120
222 ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag 180
223 tacgaacagc gctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
W--> 224 tgggtggcgg angcctganc cgctctgcct tgcctgcccc angtgggcgg ccacccctg 300
W--> 225 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacangg 360
W--> 226 ggattttgct cctanantaa ggctcatctg ggcctcggcc cccacacctg gttggccttg 420

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Input Set : A:\427d3.app.txt

Output Set: N:\CRF3\12212001\J010940.raw

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W--> 228 ctccctacaa ccacannatg cccggctcct cccggaaacc antcccance tgngaaggat      540
W--> 229 caagncctgn atccactnnt nctanaaccg gcncncncg cngtggaaacc cnccttntgt      600
W--> 230 tccttttctt tnagggttaa tnnccgcttg gccttnccan ngtectnenc nttttccnnt      660
W--> 231 gttnaaattg ttangcnccc nccnntcccn cnnnnnnan cccgaccnnc annntnnann      720
W--> 232 ncctgggggt nccnncngat tgaccnncce nccctntant tgcnttnggg nncnntgccc      780
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242 <222> LOCATION: (1)...(801)
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248 caaggacaag gccaccaggt gcgggggccc aagccacat gatccttact ctatgagcaa      180
W--> 249 aatccccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggaccang      240
W--> 250 caggtcatgg ggttgtnngc caactggggg ccncaacgca aaanggcncg gggcctcngn      300
W--> 251 caccatccc angacgggc tacactnctg gacctccnc tccaccactt tcatgcgtg      360
W--> 252 ttctnaccg cgnatntgtc ccantgttt cngtgccnac tccancttct nggacgtgcg      420
W--> 253 ctacatacgc ccggantcnc nctcccgtt tgccctatc cagtnccan caacaaattt      480
W--> 254 cncntantg caccnattcc cacttttnc agntttccnc nncngcttc cttntaaaag      540
W--> 255 ggttganccc cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata      600
W--> 256 gctgaantcc ccatnaccnn gntctnatgg anccntccnt ttttaannaen ttctnaactt      660
W--> 257 gggaaanance ctgcncntn ccccenttaa tccnccttg cnangnnent ccccnntec      720
W--> 258 nccnnntng gcntntnann cnaaaaaggc cnnnnancaa tctcctnnen cctcanttcg      780
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264 <213> ORGANISM: Homo sapien
266 <220> FEATURE:
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268 <222> LOCATION: (1)...(789)
269 <223> OTHER INFORMATION: n = A,T,C or G
271 <400> SEQUENCE: 10
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273 acagtgtggc cgtggtgaca gcttcagccg ccctcacggg gttcaccttc tcagccctgc      120
274 agatcctgcc ctacacactg gcctccctct accacgggga gaagcaggtg ttcttgccca      180
275 aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttctgc      240
276 caggccctaa gcttgagct cccttcccta atggacacgt ggtgctgga ggcagtggcc      300
277 tgctccacc tccaccgcg ctctgcgggg cctctgcctg tgatgtctcc gtacgtgtgg      360
W--> 278 tgggtgggtga gccaccgan gccagggtgg ttccgggccc gggcatctgc ctggacctcg      420
W--> 279 ccatactgga tagtgcttcc tgetgtccca ngtggcccca tccctgttta tgggctccat      480
280 tgtccagctc agccagtctg tcaactgcta tatggtgtct gccgcaggcc tgggtctggt      540
W--> 281 cccatttact ttgtacaca ggtantattt gacaagaacg anttggccaa atactcagcg      600

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Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/010,940

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Input Set : A:\427d3.app.txt  
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L:21 M:270 C: Current Application Number differs, Wrong Format  
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
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L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
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L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
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L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
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L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

## VERIFICATION SUMMARY

DATE: 12/21/2001

PATENT APPLICATION: US/10/010,940

TIME: 08:56:34

Input Set : A:\427d3.app.txt

Output Set: N:\CRF3\12212001\J010940.raw

L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9